

We claim:

1. A polymer sheet, comprising:

plasticized poly(vinyl butyral);

sodium acetate; and,

a magnesium salt, wherein the titer of said magnesium salt is at least 4, wherein the alkalinity titer attributable to said sodium acetate is at least 20, and wherein the ratio of said titer of said magnesium salt to the total alkalinity titer is at least 0.2.

2. The polymer sheet of claim 1, wherein said alkalinity titer attributable to said sodium acetate is at least 30.

3. The polymer sheet of claim 1, wherein said alkalinity titer attributable to said sodium acetate is at least 40.

4. The polymer sheet of claim 1, wherein said alkalinity titer attributable to said sodium acetate is at least 50.

5. The polymer sheet of claim 1, wherein said titer of said magnesium salt is at least 8.

6. The polymer sheet of claim 1, wherein said titer of said magnesium salt is at least 12

7. The polymer sheet of claim 1, wherein said ratio of said titer of said magnesium salt to said total alkalinity titer is at least 0.3

8. The polymer sheet of claim 1, wherein said ratio of said titer of said magnesium salt to said total alkalinity titer is at least 0.4

9. The polymer sheet of claim 1, wherein said magnesium salt is magnesium bis(2-ethylbutyrate).

10. A polymer sheet, comprising:
plasticized poly(vinyl butyral);
sodium acetate;
potassium acetate; and,
5 a magnesium salt, wherein the titer of said magnesium salt is at least 9.0, wherein the total alkalinity titer is at least 20, wherein the ratio of said titer of said magnesium salt to said total alkalinity titer is at least 0.2, and wherein the ratio of parts per million of potassium to parts per million of sodium is less than 1.0.
- 10 11. The polymer sheet of claim 10, wherein said alkalinity titer is at least 30.
12. The polymer sheet of claim 10, wherein said alkalinity titer is at least 40.
13. The polymer sheet of claim 10, wherein said alkalinity titer is at least 50.
- 15 14. The polymer sheet of claim 10, wherein said titer of said magnesium salt is at least 8.
15. The polymer sheet of claim 10, wherein said titer of said magnesium salt is at least 10.
- 20 16. The polymer sheet of claim 10, wherein said ratio of said titer of said magnesium salt to said total alkalinity titer is at least 0.3.
17. The polymer sheet of claim 10, wherein said ratio of said titer of said magnesium salt to said total alkalinity titer is at least 0.4.
- 25 18. The polymer sheet of claim 10, wherein the ratio of parts per million of said sodium to parts per million of said potassium is less than 0.8.
19. The polymer sheet of claim 10, wherein said magnesium salt is magnesium bis(2-ethylbutyrate):
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20. A method of manufacturing a polymer sheet, comprising:

forming a poly(vinyl butyral) resin, wherein said resin comprises sodium acetate and a magnesium salt;

adding a plasticizer to said resin to form a melt; and,

5 forming said polymer sheet with said melt, wherein the titer of said magnesium salt is at least 4, wherein the alkalinity titer attributable to said sodium acetate is at least 20, and wherein the ratio of said titer of said magnesium salt to the total alkalinity titer is at least 0.2.

21. A laminated glass panel, comprising:

10 a glass panel; and,

a polymer sheet, wherein said polymer sheet comprises:

plasticized poly(vinyl butyral);

sodium acetate; and,

15 a magnesium salt, wherein the titer of said magnesium salt is at least 4, wherein the alkalinity titer attributable to said sodium acetate is at least 20, and wherein the ratio of said titer of said magnesium salt to the total alkalinity titer is at least 0.2.